LG

Y2K Bug Free!

NICAM/Hi-Fi STEREO
Video Cassette Recorder
With VIDEO Plus+
OWNER'S MANUAL

MODEL: BC989NI

VHS PAL

VIDEO Plus+®

Before connecting, operating or adjusting this product, please read this instruction booklet carefully and completely.

FOR THE GUARANTEE TERMS & CONDITIONS, PLEASE REFER TO BACK COVER OF THIS MANUAL.

Precautions & Plug wiring Information

Position your VCR so that no bright light or sunlight falls directly onto it.

Care should be taken not to expose your VCR to any unnecessary vibration, moisture, dust or heat.

During electrical storms it is advisable to unplug both the aerial cable and mains plug to prevent accidental damage to your VCR and TV.

Do not operate your VCR if it is damaged. Your VCR should not be repaired by anyone except qualified service personnel.

Never remove the top cover of your VCR as this can expose you to very high voltage and other hazards. If your VCR does not operate properly, please check the Troubleshooting Check List on page 34. If your VCR still does not operate properly, unplug it and call your dealer.

Ensure that your VCR is placed in a position to allow a free flow of air.

CE *This product is manufactured to comply with the radio interference requirements of EEC DIRECTIVE 89/336/EEC, 93/68/EEC and 73/23/EEC.*

This appliance is supplied with BS 1363 approved 13 Amp fused mains plug. When replacing the fuse always use a 5 Amp BS 1362 approved type. Never use this plug with the fuse cover omitted. To obtain a replacement fuse cover contact your supplying dealer or LG Electronics U.K. LTD.

If the mains sockets in your home differ, or are not suitable for the type of plug supplied then the plug should be removed and a suitable type fitted.
If the mains plug becomes severed from the mains lead it must be destroyed. A mains plug with bared wires is hazardous if engaged in a mains output line socket.
If a 13 Amp BS 1363 plug is not suitable or any other type of plug used, then this appliance must be protected by a 5 Amp fuse.

Should you need to change the plug

The wires in this mains lead are coloured in accordance with the following codes
BLUE ~ Neutral
BROWN ~ Live
GREEN & YELLOW ~ No connection to be made
As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug proceed as follows :
The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured BLACK.
The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured RED.
DO NOT connect the wire which is coloured GREEN & YELLOW or GREEN.

Welcome to LG

Thank you for buying this LG video cassette recorder Model **BC989NI**.

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Remote Control
Location & Function

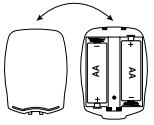
Your video recorder (VCR) is designed so that almost all of its features can be controlled from the REMOTE CONTROL HANDSET. Some features can also be controlled from the FRONT PANEL of the video recorder. The maximum operating distance that you may control your video recorder is about 7.5 metres (25 feet). It must also be within an angle of 30 degrees either side of the REMOTE SENSOR on the front of your video recorder.

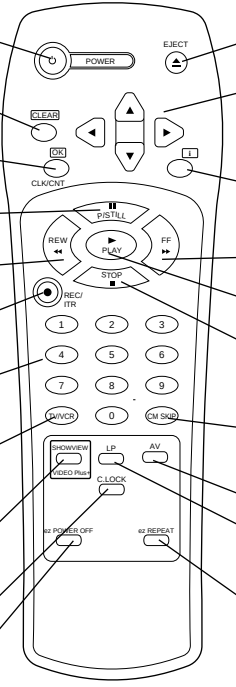
To avoid damage from possible battery leakage, remove the batteries if you do not plan to use the remote control handset for an extended period of time. Do not use batteries of differing age or type. Always discard batteries safely.

To install batteries:

Your REMOTE CONTROL HANDSET is powered by two AA type batteries.

1. To insert them, push the tab backwards and lift off the cover of the handset.
2. Put the two batteries into the compartment making sure the + and – are correctly positioned.
3. Replace the cover.





POWER
Switches the VCR on and off

CLEAR
Reset tape counter to zero

OK/CLOCK/TAPE COUNTER
Calls the on screen display.

PAUSE/STILL
Switches to a still picture

REW
Rewinds the tape
Reverse high speed picture play

REC/ITR
Starts instant recording

Numbered buttons
To select channels.
Programme number information on screen.

TV/VCR
VCR; to monitor, view playback or view the VCR's tuner
TV; to watch TV or view another programme while recording another programme

VIDEO Plus+
To display the programme menu for VIDEO Plus+ programming

CHILD LOCK
Switches the Child Lock on and off

ez POWER OFF
(see p. 32)

EJECT
Ejects tape

CURSORS
During playback, tracking control
To control on screen display information, channel up & down selection and vertical tremble during still picture.

i
Displays on screen menu

FF
Winds the tape forwards
Forward high speed picture play

PLAY
To play the tape

STOP
To stop the tape

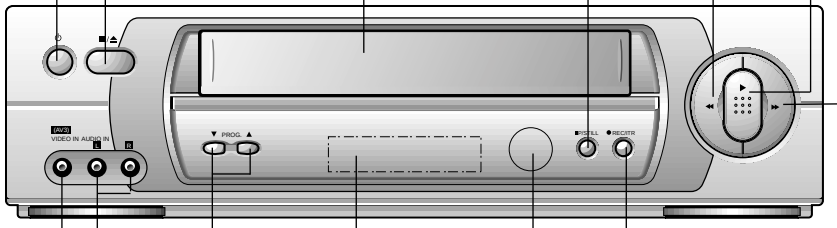
CM SKIP
To fast forward picture search through 30 seconds of a recording

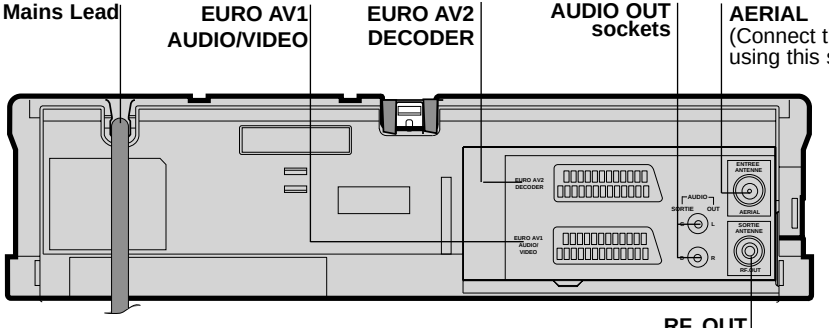
AUDIO/VIDEO MODE
Select input source for recording

LP
To select the recording speed of the tape

ez REPEAT
(see p. 32)

Each button on your VCR has the same function as its corresponding button on the remote control handset.




Mains Lead
EURO AV1 AUDIO/VIDEO
EURO AV2 DECODER
AUDIO OUT sockets
AERIAL (Connect the aerial using this socket)
RF. OUT (Connect to your TV using this socket)

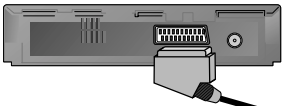
Connecting
To a TV & Satellite

If you connect your VCR using the supplied **Aerial Connection Cable** (75 Ohms) you will have to tune in a dedicated channel on your TV in order to view video tapes. Further on in the book you will be given guidance on how to tune in your TV.

The guidance given on this page is the most common form of connection. However please check with your manufacturer's instruction books for specific information. Make sure all connections are made with both your VCR and additional appliance unplugged from the mains to avoid damaging your equipment. Connecting a VCR using a SCART lead is one of the best ways to achieve optimum sound and picture quality from video-tape playback.

SCART Lead (not supplied)
If you use a SCART lead picture quality will be improved and you will be able to enjoy stereo when playing tapes (providing your TV supports stereo sound).

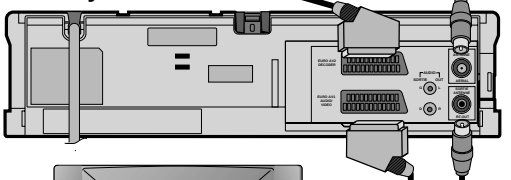
Satellite (not supplied)

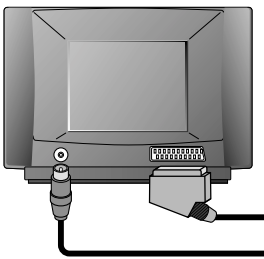


Aerial(not supplied)
The quality of the sound and picture can be greatly influenced by the positioning, quality and state of repair of your external aerial. If you are unsure about the condition of your aerial please contact an AIB registered aerial installation specialist.

Back view of your VCR

All connections must be made with all appliances unplugged from the mains.





Television
(not supplied)

Aerial Connection Cable (75 Ohms)
Do not try and force the connector into place, it should plug in easily.

Connecting
To a Hi-Fi & Camcorder

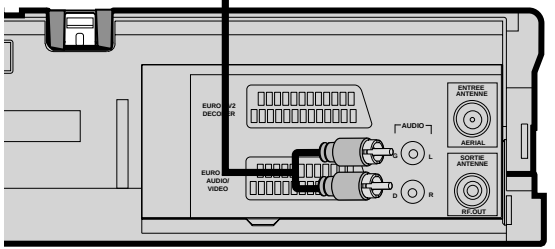
An audio system can be connected to the AUDIO OUT sockets on the back of your VCR.
Please remember to turn the volume to minimum on your Hi-Fi, then gradually increase the volume; this will prevent damaging your speakers and save you from an extremely noisy shock!

Make sure all connections are made with both your VCR and camcorder unplugged from the mains to avoid damaging your equipment. To make connecting your camcorder easier we have designed the Audio IN (Left and Right) and Video IN sockets on the front panel of your VCR.

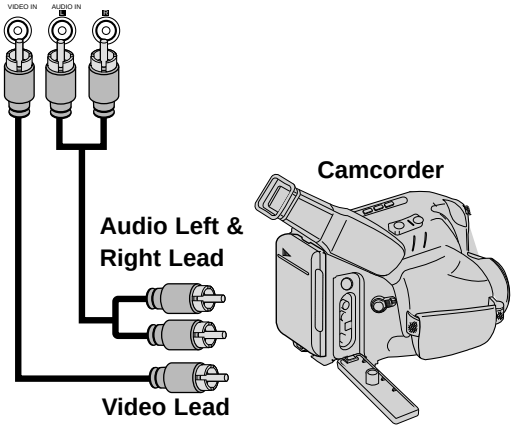
Hi-Fi

Audio Left & Right Lead

Back view of your VCR



Front view of your VCR



Audio out sockets & Phono Leads
The phono sockets for connecting your VCR to your Hi-Fi are on the back of the set; L = Left sound output, R = Right sound output. You normally have to select the AUX function on your Hi-Fi.

Tuning in a Video channel On your TV

Your TV receives signals from the video recorder (VCR) like another TV station.
You have to select a channel number on your TV and tune it in so that you may watch video tapes.
If you have used a **SCART** or **AUDIO** and **VIDEO** cables then your TV should already have a dedicated video channel built into it, usually called **AV**.

The output frequency of this video recorder (VCR) is set at UHF channel 22. If channel 22 is already used by another TV station, or if the picture is distorted, you can change the transmitter channel of your VCR. Stages 5~8 will show you how to change the output frequency of your VCR.

1

Make sure that you have correctly installed your VCR as described earlier in this book.

Press **POWER** to turn on your VCR.

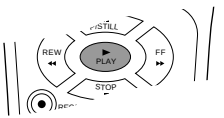
Turn on your TV.

2

Insert a pre-recorded video tape into your VCR and press **PLAY** on the remote control.

Select a TV channel number on which you wish to watch videos.

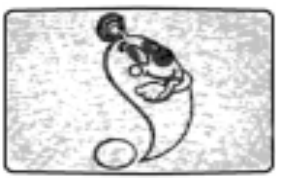
Don't worry if you don't have a video-tape to play at this stage!
If you switch your VCR on and continue stages **3~4**, instead of seeing video playback tune your TV until you see a bright blue screen.



3

Tune this channel until the video picture is sharp and the sound is clear.

If you have used a **SCART** or **AUDIO** and **VIDEO** cables you will not have to tune your TV, simply select the **AV** channel. The **AV** channel is already pre-tuned for optimum video playback on your TV.



4

Store this channel on your TV.

You will need to look at the TV instruction book if you do not know how to do this.

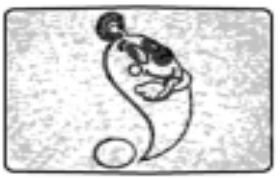
Tuning in a Video channel On your TV

5

Only carry out stages 5~8 if you cannot obtain clear video playback as described in stages 1~4.

Select a TV channel number on which you wish to watch videos.

Make sure that your VCR is in standby by pressing **POWER on the remote control**.
(Only the clock will be displayed.)

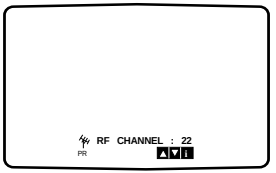


6

Press **PROG.** ▲ or ▼ on the front of your VCR for more than 4 seconds.

CH22 will appear in the VCR display.

The following picture will be displayd on the TV screen.



7

Press **PROG**. ▲ or ▼ on the VCR to select another video channel.

You may select any channel number between 22 and 68.

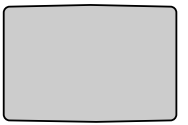
8

Select a TV channel number on which you wish to watch video's.

Tune this channel so that a bright blue screen appears.

Store this channel on your TV.

Press **POWER** on the front of your VCR when you have finished.



Make sure that you have correctly installed your VCR and successfully tuned in a dedicated video channel on your TV. If you do not tune in a dedicated video channel on your TV you will be unable to view and record video tapes!

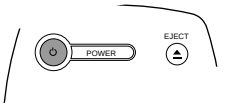
How to use the main menu

This VCR can easily be programmed by using the menus displayed on screen.
The menus are controlled from the REMOTE CONTROL HANDSET.

1

Turn on your TV set.

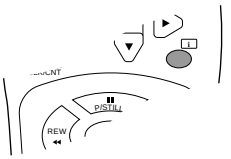
Press **POWER** to turn on your VCR.



2

Press **i**.

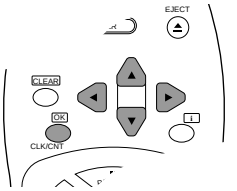
The main menu will appear on the TV screen.



3

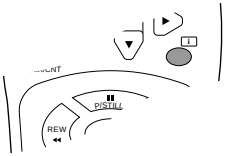
Press ◄ or ► to select the desired menu.

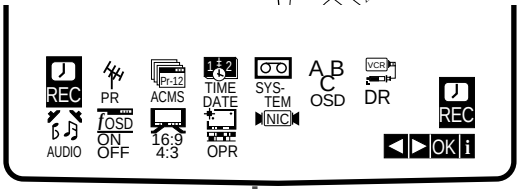
Press **OK** and press ▲ or ▼ to select the sub menu.



4

Press "**i**" to remove the menu.





LANGUAGE SELECTION
You can select the language among English, Russian, Deutsch, Français and Polski.

- **REC -** Timer recording setting (see p. 25 to 26).
- **PR -** Manual tuning setting (see p. 13 to 14).
- **ACMS -** ACMS (Automatic Channel Memory System) (see p. 12).
- **TIME DATE -** Date & clock setting (see p. 20).
- **SYSTEM -** To set the Colour System (see p. 19).
- **ABC OSD -** To change the language setting for OSD (see left).
- **DR -** To check a problem with your VCR (see p. 30).
- **AUDIO -** To select the channel for audio output (see p. 31).
- **OSD ON/OFF -** To switch the display of operational mode of your VCR ON or OFF (see p. 27).
- **16:9/4:3 -** To select the aspect ratio of your TV (see p. 29).
- **OPR -** To improve the playback picture (see p. 18).
- **NIC -** To activate or deactivate the NICAM digital sound (see p. 31).

Using Your VCR for the Very first time

For the following steps we assume that you have just connected your video recorder for the very first time.
To make tuning TV stations an easy task your VCR incorporates the **Automatic Channel Memory System (ACMS)**. This system will automatically tune and store TV channels in VIDEO Plus+ order to your VCR. While this is happening the clock (date & time) in the video recorder will be set automatically.

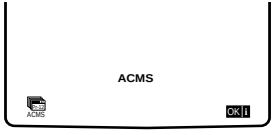
1

Make sure that you have correctly installed your VCR and tuned a video channel on your TV as described earlier in this book.

Press **POWER** to turn on your VCR.

If you have a satellite receiver make sure that it is connected to your VCR, switched on and Sky News has been selected.

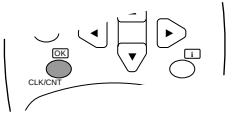
(**Initial Menu Screen**)

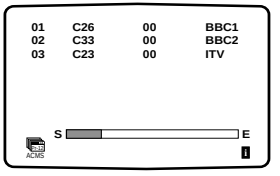


If the initial Menu Screen doesn't appear on screen, make sure that you have tuned your TV to a video channel. Or if this is correct it may mean that your VCR is already tuned.

2

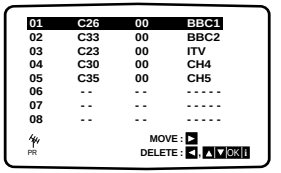
Press **OK** to start the automatic tuning process.





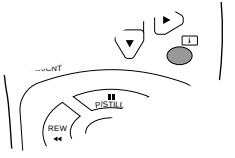
3

After storing all available TV stations your VCR will sort them into VIDEO Plus+ order.



TV Station	Programme number
BBC1	Pr1
BBC2	Pr2
ITV	Pr3
Ch4(S4C)	Pr4
Ch5	Pr5
Satellite	Pr6

Press **i** to store your TV stations and remove the TV station table.



The **ACMS** system relies on signals transmitted by the TV Station, for auto clock setting and station identification. If the TV broadcast signal is weak or fluctuates your VCR may not detect the necessary information and will be unable to identify station names and sort them correctly.
To overcome this problem please turn to the **MANUAL TUNING** section of this book on page 13 to 14.

Tuning in TV stations Automatically

For VIDEO Plus+ to work correctly TV stations must be stored in VIDEO Plus+ order ;

TV Station	Programme number
BBC1	Pr1
BBC2	Pr2
ITV	Pr3
Ch4(S4C)	Pr4
Ch5	Pr5
Satellite	Pr6

The guidance given on the opposite page is for first time use of your VCR. Should you wish to perform the **Automatic Channel Memory System (ACMS)** again please follow the guidance given on this page. You may tune up to 80 TV stations into your VCR.
After automatic tuning has taken place please check that TV stations have been placed in VIDEO Plus+ order otherwise you will be unable to successfully use this excellent feature.

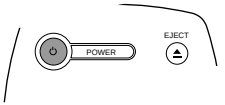
1

Make sure that you have correctly installed your VCR and tuned a video channel on your TV as described earlier in this book.

Switch on your TV and select the channel you wish to watch video's.

Press **POWER** to turn on your VCR.

If you have a satellite receiver make sure that it is connected to your VCR, switched on and Sky News has been selected.



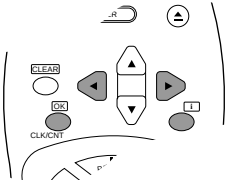
2

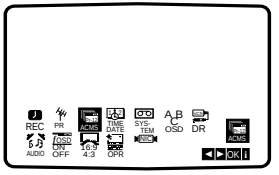
Press **i.**

The main menu will appear on the TV screen.

Press ◄ or ► to select the **ACMS**.

Press **OK**.



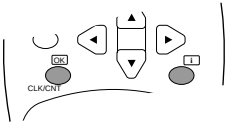


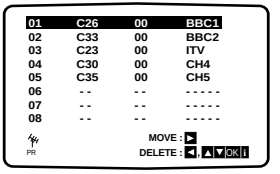
3

Press **OK** again to start the automatic tuning process.

After storing all available TV stations your VCR will sort them into VIDEO Plus+ order.

Press **i** to store your TV stations and remove the TV station table.





4

Please note currently only a limited number of TV companies transmit the **Programme Delivery Control (PDC)** signal which enables your VCR to successfully identify and store them. If your VCR has difficulty in identifying a TV station please turn the page to find out how to manually tune in and name a TV station.

While automatic tuning is taking place the time and date will set automatically. If - - :- - appears in the VCR display it means that the broadcast signal is weak and the clock was not set. Please turn to **CLOCK SET** section of this book on page 20.

Tuning in TV stations Manually

In certain areas of the country broadcast signals may be too weak for your VCR's automatic tuning process to find or assign TV stations correctly. This is important because you will only be able to successfully record TV programmes using VIDEO Plus+ if your VCR has stored them in a set order. You must tune in these weaker broadcast stations manually in order for your VCR to store them.

Remember for VIDEO Plus+ to work correctly TV stations must be stored in VIDEO Plus+ order.

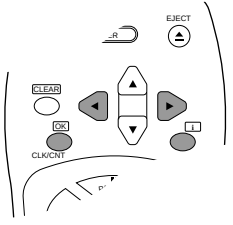
1

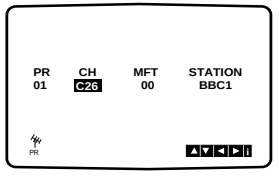
Press **i.**

The main menu will appear on the TV screen.

Press ◄ or ► to select the **PR SET**.

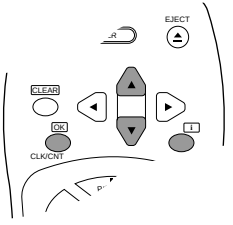
Press **OK**.





2

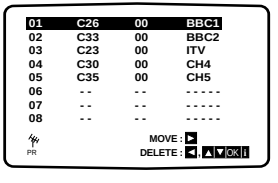
Press **i.**



TV station table will appear.

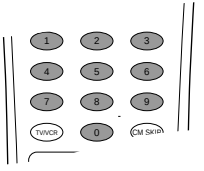
Press ▲ or ▼ to select the programme number you want to tune. (for example, PR 06)

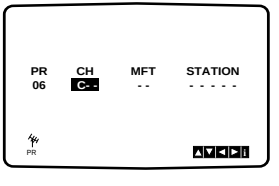
Press **OK**.



3

Enter the channel number of station that you want to tune with the **numbered buttons**.

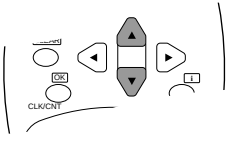




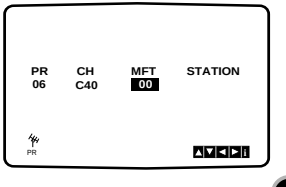
4

Searching will stop when it locates a station.

If the station transmits PDC, the station name will be added automatically.



Control the fine tuning of the station by pressing ▲ or ▼.



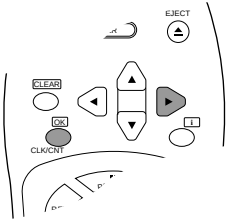
For VIDEO Plus+ to work correctly TV stations must be stored in VIDEO Plus+ order ;

TV Station	Programme number
BBC1	Pr1
BBC2	Pr2
ITV	Pr3
Ch4(S4C)	Pr4
Ch5	Pr5
Satellite	Pr6

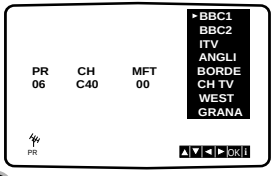
5

Press ► to select **STATION** so that you may name your TV station.

Press **OK**.



The TV station name list will appear.

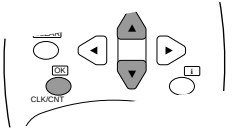


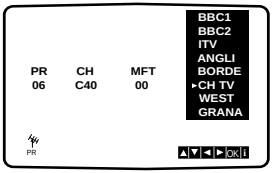
6

Press ▲ or ▼ to select a station name from the list.

Press **OK** to select it.

If your station name isn't on the list do not press OK, but go to stage 7.





7

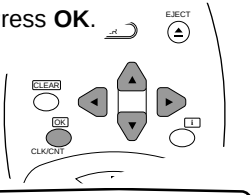
You can change a TV station name manually rather than using the "standard" names.

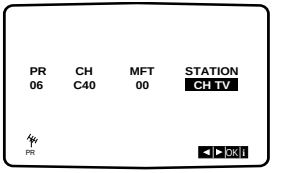
Press ►.

Press ▲ or ▼ to select **letters** and **numbers** for the new station name.

Press ◄ or ► to move back and forth between characters.

Press **OK**.





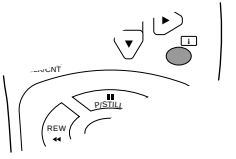
8

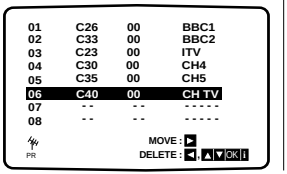
Press **i**, confirm the station placement.

Press **i** again**.**

Your new TV station has now been tuned into your VCR.

If you wish to manually tune other stations repeat stages **1 - 8**.





Changing the order of TV stations

After tuning TV stations into your VCR you may wish to **change** the order in which they are stored without having to retune them again! The instructions given on this page will show you how you can simply move them into your desired order. **However be warned... if TV stations are not stored in VIDEO Plus+ order, VIDEO Plus+ recordings may not take place or record the wrong channel!**

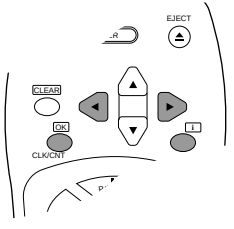
1

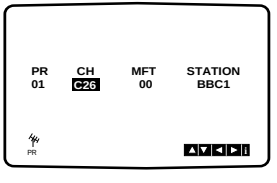
Press **i.**

The main menu will appear on the TV screen.

Press ◄ or ► to select the **PR SET**.

Press **OK**.



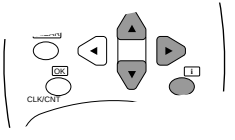


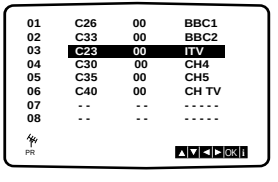
2

Press **i.**

Press ▲ or ▼ to select the **programme number** you want to move (for example, PR 03).

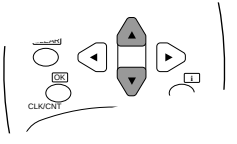
Press ►.

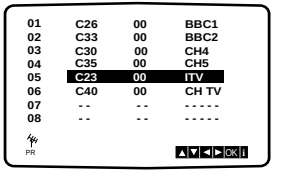




3

Press ▲ or ▼ to place the cursor line at the position where to insert the selected programme. (for example, PR 05)



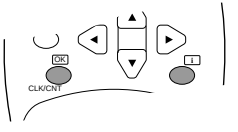


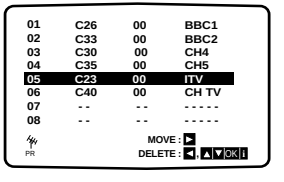
4

Press **OK**.
The selected programme will be moved to the new programme number.

Press **i**.

If you wish to move other TV stations repeat stages 1 - 4.

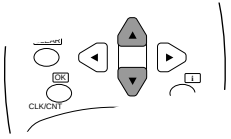


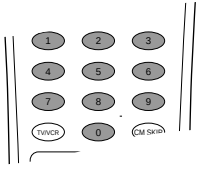


Deleting & Selecting TV Stations

Selecting stored TV stations:
Stored TV stations can be selected in either of two ways. Press ▲ or ▼ to select different stations that are tuned into your VCR.

You may also directly select stations using the **numbered buttons** on the remote control.





After tuning TV stations into your VCR you may wish to **delete** a station.
The instructions given on this page will show you how easily delete any unwanted TV stations.

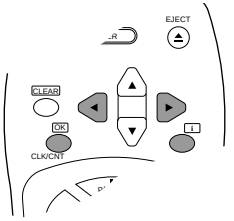
1

Press **i.**

The main menu will appear on the TV screen.

Press ◄ or ► to select the **PR SET**.

Press **OK**.



PR	CH	MFT	STATION
01	C26	00	BBC1

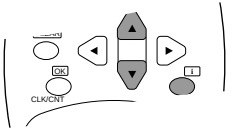
PR

▲▼◄►i

2

Press **i.**

Press ▲ or ▼ to select the **programme number** you want to delete. (for example, PR 01)



01	C26	00	BBC1
02	C33	00	BBC2
03	C23	00	ITV
04	C30	00	CH4
05	C35	00	CH5
06	C40	00	CH TV
07	--	--	-----
08	--	--	-----

PR

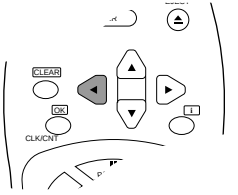
MOVE : ►
DELETE : ◄, ▲▼OK i

3

Press ◄.

After a short while, the selected station will be deleted.

The following stations are resorted automatically.



01	C33	00	BBC2
02	C23	00	ITV
03	C30	00	CH4
04	C35	00	CH5
05	C40	00	CH TV
06	--	--	-----
07	--	--	-----
08	--	--	-----

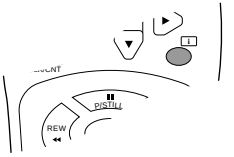
PR

MOVE : ►
DELETE : ◄, ▲▼OK i

4

Press **i.**

If you wish to delete other TV stations repeat stages **1 - 4**.



You will only be able to load and eject video cassettes when your VCR is plugged into the mains. Your VCR may also play back recordings from NTSC tapes (on PAL TV).

Getting a better picture

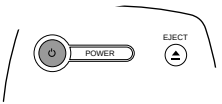
When a cassette is inserted and playback started, the automatic tracking function works to get the best possible picture automatically. If the quality of the recording is poor, repeatedly press ▼ or ▲ on the remote control to manually adjust the tracking until any distortions have been removed. Press **numbered 0** on the remote control to switch automatic tracking back on again.

1

Make sure that you have correctly connected your VCR as described earlier in this book.

Turn on your TV and select the video channel for video playback.

Press **POWER** to turn on your VCR.

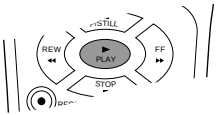


Insert the video cassette into your VCR.

The video cassette should have the window side facing up and the arrow facing away from you.

2

Press **PLAY** to start playing your tape.



If you load a video cassette which has had its record protection tab removed playback of the cassette will start automatically.

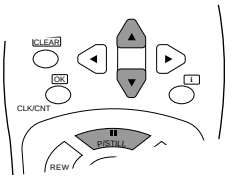
AUTO TRACKING
Your VCR will automatically adjust the tracking to give the best picture quality.

3

Still picture :
Press **P/STILL** to pause a picture.

Press **P/STILL** repeatedly to advance the still picture frame by frame.

Press ▲ or ▼ to reduce the vertical tremble during still picture.



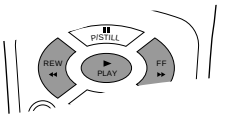
Tapes can be paused for up to 5 minutes. After 5 minutes your VCR will stop playing the tape to prevent damaging the tape or your VCR .

4

Press **PLAY** to continue playing your tape.

Picture search:
During playing back press either **FF** or **REW** to this will enable you to rapidly wind the tape (7 times normal playback speed) and see where you are on the tape.

Logic search:
During fast forwarding or rewinding press and hold **FF** or **REW** the picture will be played back at 7 times normal playback speed.



Picture search will only continue for about 3 minutes, after which your VCR will return to normal playback. During picture search, logic search, and CM Skip the sound is muted and there will be some noise streaks on the picture.

5

Slow motion playback, Shuttle :

During playing back or still picture press ◄ or ►.

You can reach the following playback speeds.

(-7xplay, -3xplay, -play, still, 1/19 slow, play, 2xplay, 7xplay)

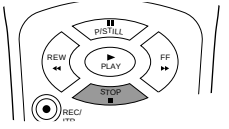
To switch off the slow motion and shuttle, press the desired function.

During slow motion and shuttle, the noise bars may appear on the picture according to the status of tape.

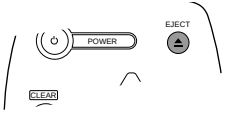
If distortions can be seen in the picture, reduce them with ▲ or ▼.

6

Press **STOP** to end playback.



Press **EJECT**.



If the end of the tape is reached, your VCR will stop playback automatically, rewind, stop, eject the tape and place itself into power off.

7

CM (Commercial Message) Skip:

This feature enables you during playback of a tape to skip a commercial break in a few seconds, then resume normal playback.

While tape is playing press **CM SKIP** on the remote control to skip commercial (or another programme material).

Repeatedly press **CM SKIP** to skip material:

1 Press	30 seconds
2 Press	60 seconds
3 Press	90 seconds
4 Press	120 seconds
5 Press	150 seconds
6 Press	180 seconds

8

OPR (Optimum Picture Response):

This feature automatically improves playback picture quality by adjusting your VCR to the condition of the tape.

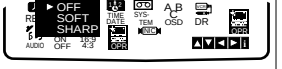
Press **i**.

Press ◄ or ► to select **OPR**.

Press **OK**.

Press ▲ or ▼ repeatedly to select: **OFF, SOFT** or **SHARP**.

Please note you may



only set OPR to on when playing a tape.

Press **i** to remove the menus.

Setting the colour system

Your VCR is equipped with dual colour standard, you can play back a tape in PAL and MESECAM.
During playback your VCR detects the colour system automatically.
It there are colour problem please select the colour system manually.

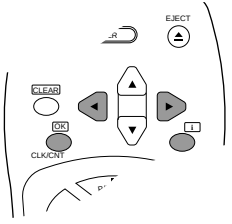
1

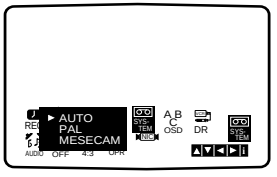
Press **i.**

The main menu will appear on the TV screen.

Press ◄ or ► to select the **SYSTEM**.

Press **OK**.



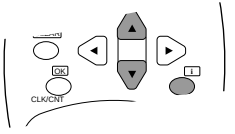


2

Press ▲ or ▼ to select the **COLOUR** system used.

AUTO: automatic colour selection,
PAL: PAL recordings
MESECAM: MESECAM recordings.

Press **i** to remove the menus.



Setting the clock Manually

Your VCR's clock is checked continually against Teletext information broadcast by most TV stations.

Remember for VIDEO Plus+ to work correctly the time and date must be set correctly.

The clock in your VCR controls time, day and date settings for your VCR.

For VIDEO Plus+ to work correctly the correct time and date must be set. The clock is set automatically during **ACMS** (Automatic Channel Memory System) when your VCR detects a channel that broadcasts a Teletext signal. If the broadcast signal is weak the clock will not be set and will require setting manually.

1

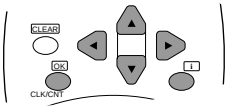
Press **i**.

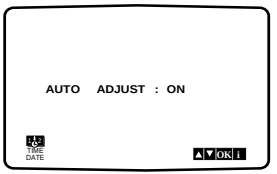
Press ◄ or ► to select **TIME DATE.**

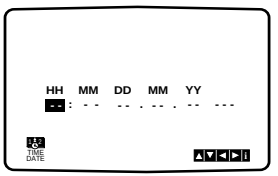
Press **OK**.

The auto adjust mode can be set to "OFF" by pressing ▲ or ▼ if you want to set the time manually.

Press **OK**.







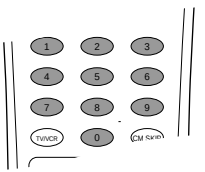
2

Use the **numbered buttons** on the remote control to alter or enter the **HOURS, MINUTES, DAY, MONTH** and **YEAR.**

Please note your VCR uses a 24 hour clock. e.g. 1 pm will be displayed as 13:00.

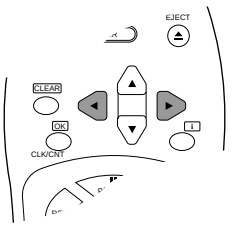
When entering singles numbers a 0 must be added first, for example 1 must be entered as 01, 2 as 02 etc.

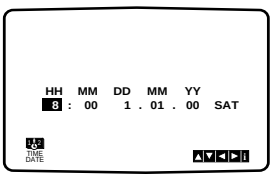
The day of the week will appear automatically when you enter the date.



3

If you make a mistake press ◄ or ► and enter the correct details.

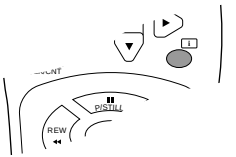




4

Press **i**.

Your new clock settings are stored and will appear on your video recorder's display.



Instant Timer Recording(ITR)

Your VCR allows you to make recordings using a variety of simple methods :

Instant Timer Recording (ITR) start recording immediately for a set period of time or until the video cassette runs out.

Timer Recording you may record at a later time (up to 1 month from the present). Up to 7 of these automatic recordings may be set.

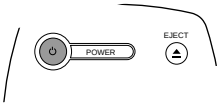
VIDEO Plus+ Recording greatly simplifies entering the date, channel, start and end times of a Timer Recording .

1

Make sure that you have correctly installed your VCR as described earlier in this book.

Turn on your TV and select the channel that you set up for video playback.

Press **POWER** to turn on your VCR.



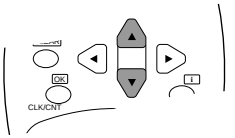
2

Insert a video cassette with protection tab into your VCR.

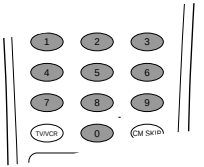
The video cassette should have the window side facing up and the arrow facing away from you.

3

Press ▲ or ▼ to select the **programme number** you wish to record.

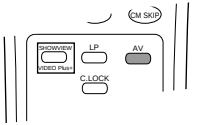


You may also directly select programme number using the **numbered buttons** on the remote control.



4

If you wish to record directly from the SCART or AUDIO sockets repeatedly press **AV** until the socket you wish to record from is displayed.



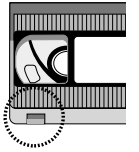
SC01 Hi-Fi Sound only recording using the AUDIO IN sockets on the front of your VCR.

AV1 Sound and Picture recording using the lower SCART socket on the back of your VCR.

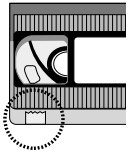
AV2 Sound and Picture recording using the upper SCART socket on the back of your VCR.

AV3 Recording from VIDEO IN and AUDIO IN (Left & Right) using the sockets on the front of your VCR.

If you do not wish to record on a tape (this can happen quite easily by accident!) remove the protection tab on the back edge of the video cassette.

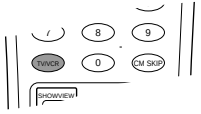


It is possible to record on a video cassette with the record protection tab removed by covering the hole with self adhesive tape.



Your VCR incorporates Long Play (LP) which enables you to record up to twice the amount of time on a video cassette. For example an E-180 will record up to 180 minutes using Standard Play (SP); using LP you will be able to record up to 360 minutes. **Please note** there will be a slight loss in picture and sound quality when using LP.

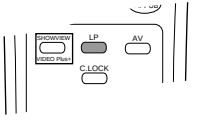
Remember you can record one programme while watching another by starting your **ITR** recording, press **TV/VCR** to select TV mode and then select a different channel on your TV.



5

Press **LP** if you wish to record in Long Play or Standard Play.

SP will produce improved picture and sound quality, however LP will provide twice as much recording time as SP.
SP or LP will be displayed in your VCR display to let you know which you have selected.

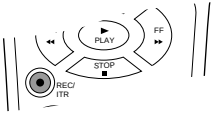


6

Press **REC/ITR** to start recording.

RECORD will appear on the TV screen.

Press **REC/ITR** several times. Each successive press will increase the record time by 30 minutes until you reach a maximum of 9 hours.

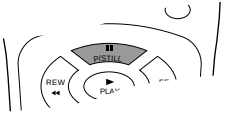


7

Press **P/STILL** to avoid recording unwanted scenes.

Press **P/STILL** again to continue recording.

Tapes can be paused for up to 5 minutes; RECP will be displayed when a tape is paused. After 5 minutes your VCR will stop recording to prevent damaging the tape or your VCR.



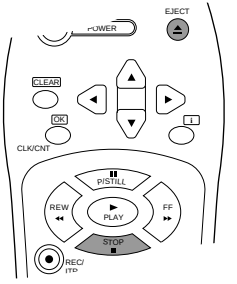
8

Press **STOP** to end recording.

Press **EJECT**.

EJECT will appear on the TV screen for a few seconds.

If the end of the tape is reached, your VCR will stop recording automatically, rewind, stop, eject the tape and place itself into power off.



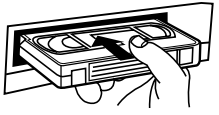
VIDEO Plus+ greatly simplifies entering the date, channel, start and end times of a Timer recording by simply entering a PlusCode. PlusCodes are published in most TV guide magazines; they can vary from one to nine numbers in length.
PLEASE NOTE! VIDEO Plus+ can only work successfully if TV channels have been tuned and stored in the order described on page 12 of this instruction book.

1

Make sure that TV channels have been tuned and stored.

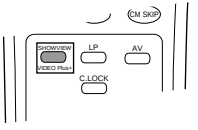
Insert a video cassette with protection tab into your VCR.

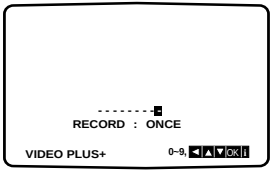
The video cassette should have the window side facing up and the arrow facing away from you.



2

Press **VIDEO Plus+**.





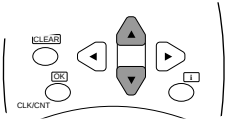
3

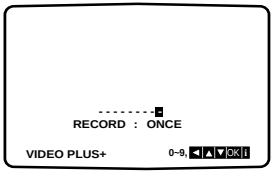
Press ▲ or ▼ to select the recording type.

ONCE: To record once.

WEEKLY: To record at the same time every week.

DAILY: To record every day (except Saturday and Sunday) at the same time.

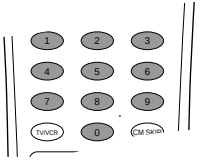


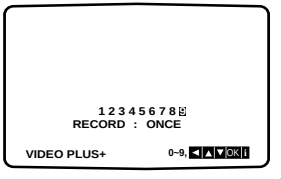


4

Press the **numbered buttons** to enter the **PlusCode** of the TV programme that you wish to record.

If you make a mistake press ◄ then enter the revised number.





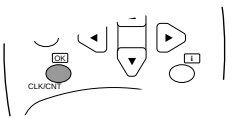
VIDEO Plus+ and PlusCode are registered trademarks of Gemstar Development Corporation.
The VIDEO Plus+ system is manufactured under license from Gemstar Development Corporation.

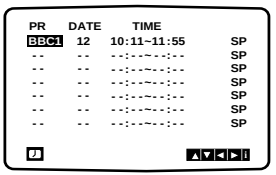
The Programme Delivery Control (**PDC**) system adjusts the start and end times of a timer record event. This can be particularly useful with sports events which may run over into extra time. The PDC signal is transmitted by the broadcaster and this controls your video recorder's timer. Currently only a limited number of TV companies transmit PDC signals.

Please make sure that when recording from channels that do not broadcast PDC that you turn PDC OFF.

5

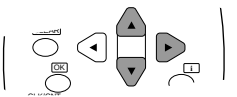
Press **OK**.
The recording details of your programme will be displayed.
If **PLEASE CHECK** is displayed it means that you have entered the wrong PlusCode, entered the PlusCode incorrectly or the PlusCode has been printed incorrectly in the TV guide.
If "- -" is displayed, you have to enter the programme number of the station, you want to record from.

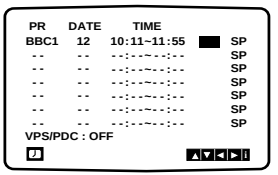




6

If you want to record from AUDIO IN and VIDEO IN on the front or from either of the SCART sockets on the back of VCR, repeatedly press **AV** for the correct display (AV1, AV2 or AV3). Press ▲ or ▼ to switch PDC on or off.
If you are recording from stations that do not broadcast PDC switch PDC off! (∗ symbol will disappear on the TV screen).
Remember only certain stations transmit PDC.
Press ► to select the recording speed.



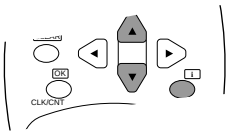


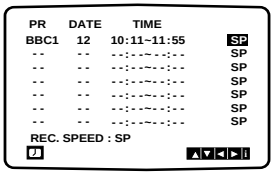
7

Press ▲ or ▼ if you wish to record in Long Play or Standard Play.

SP will produce improved picture and sound quality, however LP will provide twice as much recording time as SP.

Check that the timer event details are correct. Press **i** to save your settings.



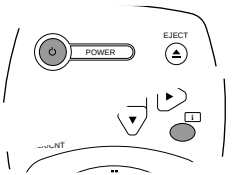


8

If **PLEASE CHECK** is displayed, you have entered incorrect information and will need to re-enter the data.
If you want to make other VIDEO Plus+ recordings repeat stages **2 - 7**.

Press **i** to remove the menus.

Press **POWER** to switch your VCR off.



TIMER will appear in the video recorder's display while your VCR waits to make the recording.

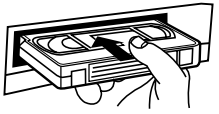
If you choose not to use **VIDEO Plus+ Recording**, you can set timed recordings manually.
You may set up to seven timer record events within one month of the current date.
PLEASE NOTE! before setting the timer make sure that you have set the VCR clock correctly and you know which channels you have tuned TV stations on your VCR.
In a stage 4, If you want to record from AUDIO IN and VIDEO IN on the front or from either of the SCART sockets on the back of VCR, repeatedly press **AV** for the correct display (AV1, AV2 or AV3).

1

Make sure that TV channels have been tuned and stored.

Insert a video cassette with protection tab into your VCR.

The video cassette should have the window side facing up and the arrow facing away from you.

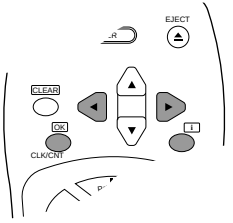


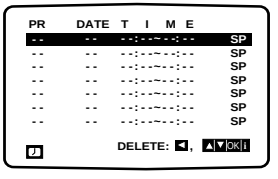
2

Press **i**.

Press ◄ or ► to select **REC**.

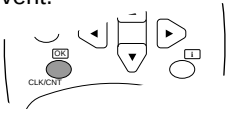
Press **OK**.





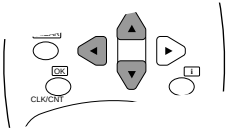
3

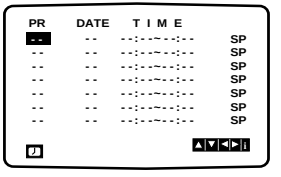
Press **OK** again to start setting the timer record event.



If all timer record events are full press ▲ or ▼ to select the event that you wish to remove and replace.

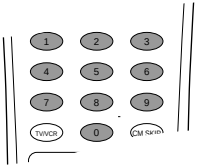
Press ◄ to remove the event.



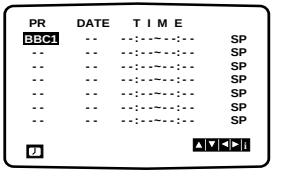


4

Press the **numbered buttons** to enter the programme number that you wish to record.



When selecting programme numbers 1 - 9, press 0 first, then the programme number; for example PR NO. 1 as 01. You may also select programme numbers by pressing ▲ or ▼.
Once selected press ►.



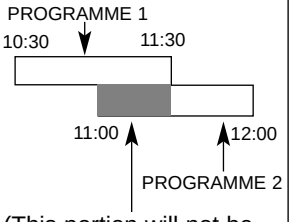
If timer record events overlap...

Make sure that the preset times of the timer recording events do not overlap. If they do, the earlier programme will always be given priority.

Example:
Programme 1 is programmed to start at 10:30 and end at 11:30.

Programme 2 is programmed to start at 11:00 and end at 12:00.

(In this case, Programme 1 will be recorded in its entirety, but only the last 30 minutes of Programme 2 will be recorded.)

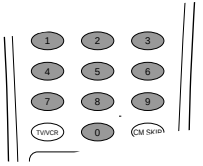


(This portion will not be recorded)

If at a later date you wish to **delete** or **change** any of the settings in timer event memory you may do so without having to enter all the timer event information again. Simply display the timer event screen. Press ▲ or ▼ to select the event that you wish to **delete** or **change**.
Press ◄ to delete the event.
Press OK to change; then press ◄ or ► to select Station, Date, Start and End times, PDC and LP. Press ▲ or ▼ to enter the correct information.

5

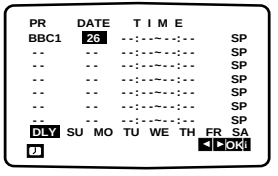
Press the **numbered buttons** to enter the date of the programme.



If you press **OK** before entering the date you may select one of the following automated recording features. Press ◄ or ► to select, then press **OK** to confirm.

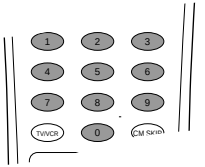
Dly(Daily) To record every day (except Saturday and Sunday) at the same time.

Weekly To record at the same time every week.

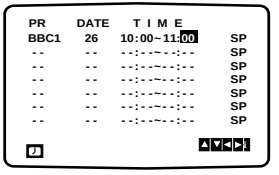


6

Press the **numbered buttons** to enter the recording start and end times of the programme that you wish to record.



Please note your VCR uses a 24 hour clock. e.g. 1 pm will be displayed as 13:00. You may also select the start and end times by pressing ▲ or ▼.



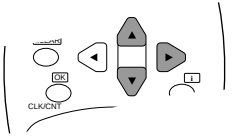
7

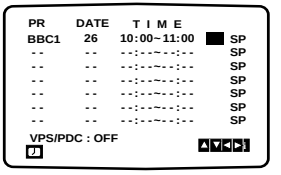
Press ▲ or ▼ to switch PDC on or off.

If you are recording from stations that do not broadcast PDC switch PDC off! (⁎ symbol will disappear on the TV screen).

Press ► to select the recording speed.

Press ▲ or ▼ if you wish to record in Long Play or Standard Play.



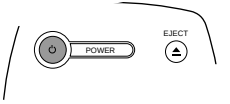


8

Check that the timer event details are correct. Press **i** to save your settings.

If **PLEASE CHECK** is displayed, you have entered incorrect information and will need to re-enter the data.

If you want to make other Timer recordings repeat stages **3 - 8**. Press **i** again to remove the menus. Press **POWER** to switch your VCR off.



TIMER will appear in the video recorder's display while your VCR waits to make the recording.

Energy Saving

Your VCR has an Energy Save feature which if set will place your VCR into an economic power save where the clock display will disappear. **If you have programmed a recording, this feature will not work.**

1

Press **POWER on the VCR.**

The VCR and clock will appear in the video recorder's display.

2

Press **POWER on the VCR** again and your VCR will go into **Energy Save**.

All indicators will turn off in the video recorder's display.

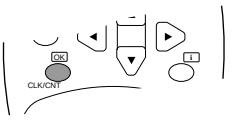
Press **POWER** to switch off **Energy Save**.

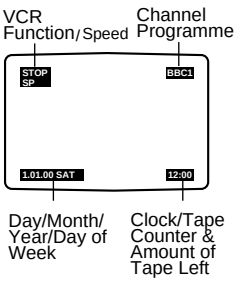
On Screen Display

You may easily display the current time or tape counter and amount of tape left, day, month, year, day of week, programme channel, and operational mode of your VCR on the TV screen. If a recording is taking place these On Screen Displays will not be recorded onto the tape.

1

Press **OK/CLK/CNT** to display.





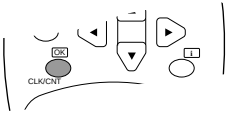
Press **OK/CLK/CNT** repeatedly to display the tape counter and amount of tape left.

Tape counter and amount of tape left appear only while a tape is loaded.

2

After 3 seconds the display will clear only leaving the clock or tape counter and amount of tape left on the TV screen.

Press **OK/CLK/CNT** again to remove all displays from the TV screen.



Tape Counter Memory Stop Child Lock

The **Digital Tape Counter** can be displayed on your TV screen instead of the time by pressing **OK/CLK/CNT** on the remote control. The Digital Tape Counter indicates the relative positions of recordings on the tape.

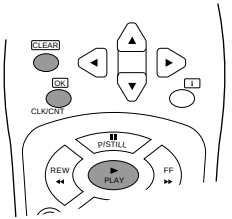
1

Press **OK/CLK/CNT** repeatedly until the counter is displayed on screen.

Press **CLEAR** to set the counter to 0:00:00.

Press **PLAY** or start recording.

The tape counter will display the actual play time in hours, minutes and seconds.

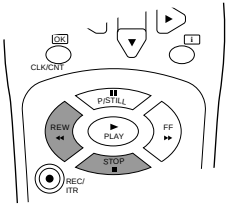


2

Press **STOP** when playback or recording is complete.

Press **REW**.

The tape will rewind and automatically stop when the counter returns to 0:00:00.



The control buttons on the front of the VCR can be switched off so that your VCR can only be operated using the remote control.

1

Press **C.LOCK**.

SAFE will appear on the TV screen.

SAFE will flicker in your video recorder's display for a few seconds.

None of the buttons on the front of your VCR will work (except **STOP/ EJECT**).

If any buttons on the front of your VCR are pressed **SAFE** will flicker in your video recorder's display.

2

Press **C.LOCK** again to switch off the child lock.

SAFE will disappear on the TV screen.

OFF will flicker in your video recorder's display for a few seconds.

Wide Screen
Compatibility 16:9

Your VCR can record and play back wide screen aspect ratio programmes (16:9). To record a wide screen format programme successfully the correct type of wide screen signal must be broadcast by the TV station.

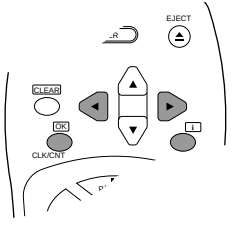
1

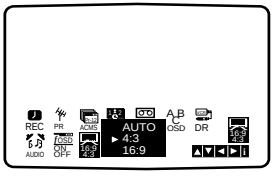
Switch on your VCR.

Press **i**.

Press ◄ or ► to select **16:9/4:3**.

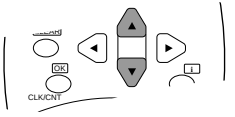
Press **OK**.





2

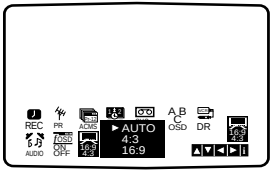
Press ▲ or ▼ repeatedly to select : **AUTO, 4:3** or **16:9**.



AUTO:
Automatically plays back Wide-Screen programmes as Wide-Screen and Normal programmes as normal.

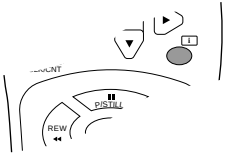
4:3
Only for playing back and recording Normal format recordings (4:3).

16:9:
Only for playing back and recording Wide-Screen format recordings (16:9).



3

Press **i** to remove the menus.



To enjoy Wide-Screen playback you must connect your VCR to the TV using a SCART cable.

Automatic Memory Power Shut-Off & Video Doctor (Self-Diagnosis)

Automatic Memory Power Shut-Off

This feature of your VCR enables you to switch off your VCR automatically after tape rewind has been completed.

1

Press **POWER** during tape rewind.

2

The tape will rewind to the beginning and your VCR will automatically switch itself off.

Video Doctor (Self-Diagnosis)

This feature informs you that there is a problem with your VCR. These error messages will appear on the TV screen.

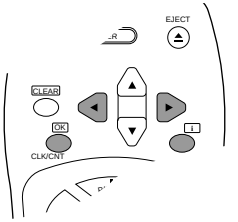
1

Switch on your VCR.

Press **i**.

Press ◄ or ► to select **DR**.

Press **OK**.



2

Press ▲ or ▼ to check a problem.

HEAD STATUS
- **PLEASE CLEAN:** Clean your video heads.

TAPE STATUS
- **NOT RECORDABLE:** Insert a tape with its protection tab in place

NO. OF TIMER PROGRAMME
- **2** Shows the number of timer recording.

NEXT TIMER PROGRAMME
- **BBC1 26 10:00~11:00** Shows the current status of timer recording.

Press **i**.

Your VCR will record and playback Hi-Fi stereo sound. In addition it has a stereo NICAM digital stereo sound decoder. This allows you to record and playback the sound in several different ways. Video cassettes recorded on your VCR will have a normal mono audio track and two VHS Hi-Fi stereo audio tracks. These stereo tracks allow you to make audio recordings in Hi-Fi stereo or bilingual mode from a TV broadcast, stereo audio system, video disc or another Hi-Fi VCR.

1

Your VCR's NICAM digital sound decoder allows you to enjoy broadcasts with NICAM sound, as well as standard stereo, bilingual and mono sound. The particular type of sound received or that recorded will be briefly displayed on the TV screen for a couple of seconds:

STEREO NICAM
Sound is automatically recorded on the Hi-Fi stereo and mono tracks of the video tape.

BIL NICAM
Both audio channels will be recorded on the Hi-Fi stereo tracks. The primary language channel (left) will be recorded on the mono track of the video tape.

MONO
The sound is recorded on the Hi-Fi tracks and the mono track of the video tape without any separation.

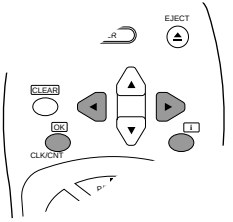
2

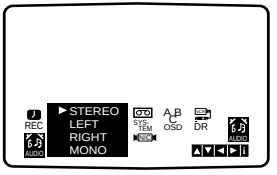
Switch on your VCR.

Press **i**.

Press ◄ or ► to select **AUDIO**.

Press **OK.**

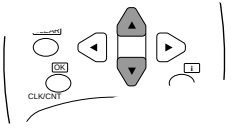




3

Press ▲ or ▼ to select **AUDIO.**

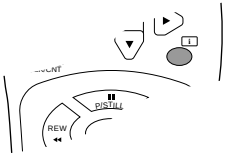
The choice is **STEREO, LEFT** (left channel), **RIGHT** (right channel) and **MONO**.



In **BIL NICAM** playback the primary language is output on the left channel and the secondary channel is output simultaneously from the right channel when audio output is set to **STEREO**. The primary language will be output from both channels when the audio setting is **MONO**. Please note that when adjusting the tracking control Hi-Fi stereo sound may revert to **MONO**.

4

Press **i** to return to a TV picture.

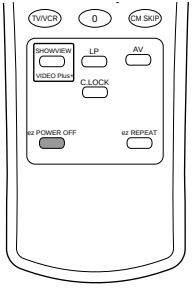


ez (easy) operations

ez (easy) power off

The sequence of "Stop → Rewind → Eject → Power Off" is operated automatically by pressing **ez POWER OFF**.

1 During play back press **ez POWER OFF**.



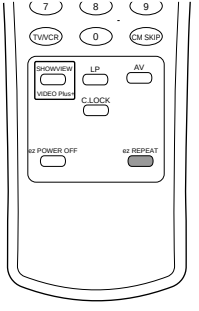
2 Your VCR will be operated as the following ;

STOP
↓
REWIND
↓
EJECT
↓
POWER OFF

ez (easy) repeat

By pressing & holding **ez REPEAT** during play back, the holding section is replayed twice automatically.

1 During play back, press & hold **ez REPEAT** at the point where repeat play is to be concluded. Then, your VCR will go into reverse search.



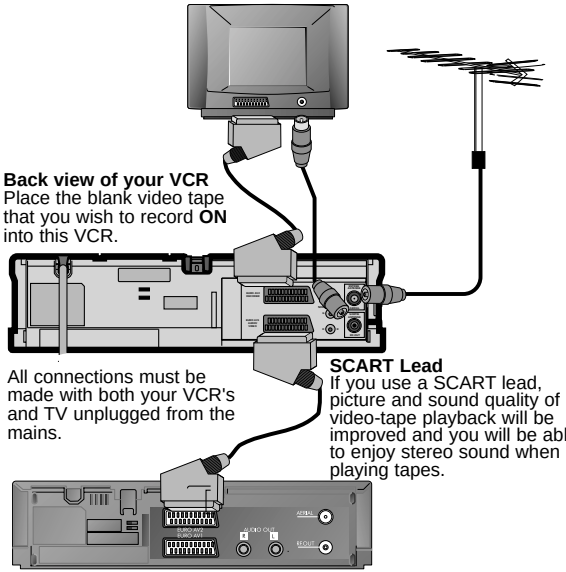
2 Release **ez REPEAT** at the point where repeat play is to start.

The holding section is replayed twice automatically.

Pressing **ez REPEAT** again during repeat play, will return to normal play.

Tape Copying

A second VCR (for tape copying) should be connected to the AV sockets on the front of your VCR or one of the SCART sockets on the back of your VCR. Remember to select the appropriate audio/video mode by pressing the **AV** button on the remote control.



Back view of your VCR
Place the blank video tape that you wish to record **ON** into this VCR.

All connections must be made with both your VCR's and TV unplugged from the mains.

SCART Lead
If you use a SCART lead, picture and sound quality of video-tape playback will be improved and you will be able to enjoy stereo sound when playing tapes.

Back view of playing VCR
Place the video tape that you wish to record **FROM** into this VCR.

Unauthorised recording of copyrighted TV programmes, film, video cassettes and other materials may infringe the rights of copyright owners and be contrary to copyright laws

Specifications

General	
Power	200-240V~, 50Hz.
Power consumption	Approx. 18 Watts (Energy saving mode: 3 Watts)
Video Head System	Double azimuth 4 heads, helical scanning.
Tape speed	23.39 mm/sec (SP mode)/ 11.69 mm/sec (LP mode).
Tape format	Tape width 12.7 mm (0.5 inch).
Maximum recording time	4 hours (SP mode, E-240 tape)/ 8 hours (LP mode, E-240 tape).
Rewind time	Approx. 65(±10) sec. (E-180 tape).
Dimensions	360 x 94 x 270 mm (W x H x D)
Weight	3.4 Kg.
Operating temperature	5°C - 35°C
Operating humidity	Less than 80%.
Timer	24 hours display type.
Video	
Television system	CCIR standard (625 lines, 50 fields) PAL I colour signal
Recording format	PAL I
RF reception	PAL I
RF OUT	PAL I
Input level	VIDEO IN (SCART, RCA) 1.0 Vp-p, 75 Ohm, unbalanced
Output level	VIDEO OUT (SCART) 1.0 Vp-p, 75 Ohm, unbalanced
Signal to noise ratio	More than 43 dBm.
RF modulator	UHF channels 22-68 (adjustable)
Audio	
Input level	AUDIO IN (SCART, RCA) SCART type: -6.0 dBm, more than 10 kohms RCA : -6.0 dBm, more than 47 kohms
Output level	AUDIO OUT (SCART, RCA) SCART : -6.0 dBm, less than 1 kohms RCA : -6.0 dBm, less than 1 kohms
Track	Mono track & Hi-Fi track
Frequency response	100 Hz-10 kHz (-6/+3 dBm)
Signal to noise ratio	Hi-Fi : More than 70 dB (JIS A filter)
Dynamic range	Hi-Fi : More than 85 dB (JIS A filter)

The design and specifications are subject to change without notice.

Troubleshooting
Check List

Video Head Cleaning

Whenever a video cassette is inserted into or ejected from your VCR the video head is automatically cleaned. This should mean that additional head cleaning should not be necessary. However dirt accumulating on the head after a long period of time can cause the playback picture to become blurred or broken up. High quality video cassette tapes will not normally deposit dirt onto the video head, but old or damaged tapes might.

Symptom	Check points
No picture & no sound	Is the mains plug plugged in and switched on? Is the TV switched on? Try another channel, maybe a weak signal. Check aerial is it plugged in? Check aerial, is the lead broken or damaged? Have you tuned in a video channel on your TV to watch video on? If you have used a SCART lead to connect your VCR and TV have you selected the AV channel on your TV? Check tuning, carry out Automatic Tuning again
No playback or poor picture	Are the TV channels tuned in properly? Have you tried using another cassette? Can you minimise the noise bars to an acceptable level with 0, ▲ or ▼ ?
TV programmes cannot be recorded	Can you get a picture on the TV? Are the aerial leads and special RF connector lead between your VCR and TV connected? Are the TV channels tuned in properly? Has the safety tab on the video cassette been removed to prevent recording? Try another station, maybe a weak signal Check aerial is it plugged into TV?
Video cassette cannot be inserted	Is the cassette compartment empty? Are you trying to insert the cassette the right way round?
Remote control does not work	Is the mains plug plugged in and switched on? Is the VCR switched on Check the batteries in remote control.
The top of the playback picture is unstable	Is the video cassette damaged, have you tried using another one? Adjust the horizontal control on your TV. Check aerial is it plugged into VCR? Check aerial, is the lead broken or damaged? Check for local interference Make sure that you are using a video TV channel on your TV.
No NICAM sound recording	Make sure NICAM in the menu is set to AUTO for the station to be recorded.
No Hi-Fi sound	Switch "AUDIO" in the menu to STEREO.
Auto Play does not work	Has the safety tab been removed from the video cassette?

LG Guarantee

- LG Electronics U.K. Ltd. will provide the following services in order to expedite this Guarantee.

1. All faulty components which fail due to defective manufacture will be replaced free of charge for a period of 12 months from the original date of purchase.
2. The dealer (or his service agent) who sold the product will be reimbursed for any labour provided in the repair of this LG equipment, for a period of 12 months from the original date of purchase. These claims must be made in accordance with the published scale of service charges and relevant claims procedure.

PLEASE NOTE:

A. The dealer may restrict the guarantee to the original purchaser.
B. The dealer is not obliged to carry out service under guarantee if unauthorised modifications are made to the apparatus, or if non standard components are used or if the serial number of the apparatus is removed, defaced, misused, or altered.
C. Any claims made under guarantee must be directed to the dealer from whom the equipment was originally purchased. The dealer may, before carrying out service under guarantee, require a receipted account as evidence of the date of purchase.
D. We respectfully point out that your dealer is not obligated to replace batteries if they become exhausted or worn in use.
E. Aerial alignment and consumer control adjustments are not covered by this guarantee.

This guarantee does not affect your statutory rights.

- REQUIREMENTS TO MAINTAIN WARRANTY COVERAGE:

  RETAIN YOUR RECEIPT TO PROVE DATE OF PURCHASE. A COPY OF YOUR RECEIPT MUST BE SUR RENDERED AT THE TIME GUARANTEE SERVICE IS PROVED.

- Product Registration Card : It is helpful to complete at least your name, address, phone, model & serial numbers and return it. This will enable LG to assist you in the future should you lose your receipt, your units be stolen, or should modifications be necessary.

- To obtain information or assistance: Call 01753 500470 Monday-Friday 9.00am-4.30pm

MODEL NO.*	SERIAL NO.*	DATE OF PURCHASE.*

- Please complete for your own record

In all cases of difficulty - consult your LG dealer from whom the product was purchased

P/N: 3834RP0052R